

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018998

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H05K9/00, H01Q17/00, H01F1/00, H01F1/37

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H05K9/00, H01Q17/00, H01F1/00, H01F1/37

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Jitsuyo Shinan Toroku Koho	1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS (JICST FILE)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Koichi NARITA et al., "Jisei Mokuzai o Mochiita GHz-tai Yo Denpa Kyushutai no Sakusei ni Kansuru Jikkenteki Kento", Denki Gakkai Denji Kankyo Kenkyukai Shiryo, 18 January, 2000 (18.01.00), EMC-00-1 to 17, pages 121 to 127	1-3
Y	JP 50-155999 A (TDK Electronics Co., Ltd.), 16 December, 1975 (16.12.75), Page 1, lower right column, lines 13 to 18 & US 4003840 A & DE 2524300 A1	1-3
Y	JP 5-299872 A (FDK Corp.), 12 November, 1993 (12.11.93), Par. Nos. [0007] to [0012] (Family: none)	1-3



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
04 March, 2005 (04.03.05)

Date of mailing of the international search report
29 March, 2005 (29.03.05)

Name and mailing address of the ISA/
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018998

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-84090 A (Shin-Etsu Chemical Co., Ltd.), 22 March, 2002 (22.03.02), Claims 1, 6; Par. No. [0018] (Family: none)	3
A	JP 8-18272 A (Toshiba Corp.), 19 January, 1996 (19.01.96), Full text (Family: none)	1-3
A	JP 2000-228598 A (Daido Steel Co., Ltd.), 15 August, 2000 (15.08.00), Full text; Figs. 1 to 9 (Family: none)	1-3
A	JP 2001-118711 A (Japan Science and Technology Corp.), 27 April, 2001 (27.04.01), Full text; Figs. 1 to 9 (Family: none)	1-3
A	JP 61-269399 A (Sanyo Mokuzai Bofu Kabushiki Kaisha), 28 November, 1986 (28.11.86), Full text; Figs. 1 to 3 (Family: none)	1-3
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 80560/1989 (Laid-open No. 20498/1991) (Kaneka Corp.), 28 February, 1991 (28.02.91), Full text; Figs. 1 to 3 (Family: none)	1-3
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 48591/1987 (Laid-open No. 155699/1988) (Inoue Japax Research Inc.), 12 October, 1988 (12.10.88), Full text; Fig. 1 (Family: none)	1-3
A	Koichi NARITA et al., "Sandwitch-gata Jisei Mokuzai no Sakuseiho to Denpa Kyushutai eno Oyo", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 22 April, 1999 (22.04.99), Vol.99, No.18, pages 35 to 41	1-3